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	Application No.	Applicant(s)	
Alacia de Allacada de Cara	10/731,884	BANSAL, NITIN	
Notice of Allowability	Examiner	Art Unit	-
	Gary L. Laxton	2838	•
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) of NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RICO of the Office or upon petition by the applicant. See 37 CFR 1.313	OR REMAINS) CLOSED or other appropriate comr GHTS. This application is	in this application. If not include nunication will be mailed in due	ed course. THIS
1. \boxtimes This communication is responsive to <u>the amendment filed 0</u>	<u>3/21/05</u> .		
2. The allowed claim(s) is/are <u>1-15</u> .	,		
3. 🔀 The drawings filed on <u>09 December 2003</u> are accepted by t	he Examiner.		
 4. Acknowledgment is made of a claim for foreign priority undanal	been received. been received in Applicat uments have been receiv of this communication to fi	tion No red in this national stage applicat	·
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give:	ted. Note the attached Ex s reason(s) why the oath	XAMINER'S AMENDMENT or N or declaration is deficient.	OTICE OF
 6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftsperson 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.1 each sheet. Replacement sheet(s) should be labeled as such in the paper No./Mail DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT F 	Amendment / Comment 34(c)) should be written on the header according to 37 Could be the beautiful of BIOLOGICAL MA	or in the Office action of the drawings in the front (not the CFR 1.121(d). TERIAL must be submitted. N	
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Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Paper No 3), 7. ☐ Examiner	Informal Patent Application (PTC Summary (PTO-413), p./Mail Date 's Amendment/Comment 's Statement of Reasons for Allo Gary L. Laxton Primary Examiner Art Unit: 2838	

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DETAILED ACTION

Information Disclosure Statement

1. The listing of references in the specification is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609 A(1) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered.

Allowable Subject Matter

- 2. Claims 1-15 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

Claims 1-4; prior art fails to disclose or suggest, inter alia, a low dropout voltage regulator comprising a current sense transistor coupled to a series pass transistor using current mirroring to monitor the current; a reference current source coupled to the output of the current sense transistor; and a junction of the current sense transistor and the reference current source being connected to the difference voltage amplifier in a manner that increases an apparently sensed output voltage as the current through the current sense transistor exceeds the reference current value.

Claims 5 and 6; prior art fails to disclose or suggest, inter alia, a method for improving current limiting in an integrated low Drop Out comprising: receiving a reference voltage at a first input of a difference voltage amplifier; sensing a regulator output voltage; applying the sensed regulator output voltage to a second input of the difference voltage amplifier in a manner that provides negative feedback; sensing current passing through the regulator output; comparing the sensed current to a reference current; and controlling operation of the difference voltage amplifier in a manner that increases the sensed regulator output voltage if the sensed current exceeds the reference current.

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Claims 7-11; prior art fails to disclose or suggest, inter alia, a low drop-out voltage regulator, comprising: a differential amplifier stage including; and a current control transistor coupled the differential amplifier; and an output stage including: a pass transistor coupled between a regulator input and the regulator output and controlled by an output of the differential amplifier; and a current sensing transistor coupled between the regulator input and the current control transistor of the differential amplifier.

Claim 13: prior art fails to disclose or suggest, inter alia, a method comprising: sensing an output regulated voltage; comparing the output regulated voltage to a reference voltage; controlling the output voltage through negative feedback to substantially match the reference voltage; sensing a current associated with the output voltage; comparing the sensed current to a reference current; if the sensed current exceeds the reference current, then overriding the sensing of the output regulated voltage to sense a higher voltage.

Claim 14; prior art fails to disclose or suggest, inter alia, a regulator comprising a regulator, comprising: a negative feedback voltage control circuit that senses an output regulated Application/Control Number: 10/731,884 Page 4

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voltage and controls that sensed output regulated voltage to substantially match a reference voltage; a current sensor that senses a current associated with the output regulated voltage and compares the sensed current to a reference current; and a feedback control circuit responsive to sensed current exceeding the reference current to override the negative feedback voltage control circuit sensing of the output regulated voltage to sense a higher voltage.

Claim 15; prior art fails to disclose or suggest, inter alia, a regulator comprising differential amplifier including first and second mirrored current paths, a current flowing in the first current path being controlled by the output regulated voltage, and a current flowing in the second current path controlling the sensed output regulated voltage to substantially match the reference voltage; an override circuit coupled to the first current path and responsive to the feedback control circuit to maintain current flowing in the first current path as the output regulated voltage decreases.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gary L. Laxton whose telephone number is (571) 272-2079. The examiner can normally be reached on Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Sherry can be reached on (571) 272-2084. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Gary L. Laxton

Primary Examiner

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